



Analytical Laboratory

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number:	J12100033			
Project Name:	NPDES - MONTHLY			
Customer Name(s):	Matthew Dorn, Mark Harper, Todd Spa	ide, Tara T	homas, Matthew Hoy	rt .
Customer Address:	11021 BROWER RD.			
	NORTH BEND, OH 45052			
Lab Contact:	Therona T James P	hone:	980-875-4795	
Report Authorized By: (Signature)		Date:		10/11/2012

Program Comments:

Miami Fort October NPDES - Monthly

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

The results in this report meet NELAP requirements through New York State Department of Health Certification # 11717.. Certified parameters are designated with an "N" in the analytical report.

Sample ID's & Descriptions:

Sample ID	Collection Sample ID Plant/Station Date and Time		Collected By	Sample Description		
2012020815	MIAMI-FORT	02-Oct-12 7:37 AM	M. Dorn	OUTFALL 002		
2012020816	MIAMI-FORT	02-Oct-12 7:48 AM	M. Dorn	OUTFALL 608		
2 Total Samples						

Technical Validation Review

Checklist:

	COC and .pdf report are in agreement with sample and analyses (compliance programs and procedure	✓ Yes	□ No	
	All Results are less than the laboratory reporting lim	Yes	✓ No	
	All laboratory QA/QC requirements are acceptable.	poratory QA/QC requirements are acceptable.		☐ No
Report S	Sections Included:			
✓ J	ob Summary Report	☐ Sub-contr	acted Laborate	ory Results
✓ S	ample Identification	☐ Custome	Specific Data	Sheets, Reports, & Documentation
✓ T	echnical Validation of Data Package	Customer Database Entries		
✓ A	nalytical Laboratory Certificate of Analysis	✓ Chain of	Custody	
□ A	nalytical Laboratory QC Report	☐ Electronic	Data Delivera	able (EDD) Sent Separately

Reviewed By: Mary Ann Ogle Date: 10/11/2012

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J12100033

Site: OUTFALL 002 Sample #: 2012020815

Collection Date: 02-Oct-12 7:37 AM Matrix: NPDES

Analyte Result Units Qualifiers RDL DF Method Analysis Date/Time Analyst TOTAL DISSOLVED SOLIDS TDS 1200 SM2540C TJA7067 mg/L Ν 40 1 10/03/2012 15:30

Site: OUTFALL 608 Sample #: 2012020816

Collection Date: 02-Oct-12 7:48 AM Matrix: NPDES

								-
Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
ALKALINITY (FIXED END POINT 4	<u>.5)</u>							
Alkalinity (mg/L CaCO3)	1200	mg/L (CaCO3)	N	0.1	1	SM2320B	10/10/2012 16:44	TJA7067
INORGANIC IONS BY IC								
Chloride	5600	mg/L	N	100	1000	EPA 300.0	10/03/2012 14:49	BGN9034
Fluoride	13	mg/L	N	5	50	EPA 300.0	10/03/2012 14:49	BGN9034
Sulfate	6500	mg/L	N	100	1000	EPA 300.0	10/03/2012 14:49	BGN9034
TOTAL METALS BY ICP								
Boron (B)	346	mg/L	N	0.5	10	EPA 200.7	10/05/2012 14:16	DJSULL1
Iron (Fe)	1.52	mg/L	N	0.01	1	EPA 200.7	10/05/2012 14:16	DJSULL1
Manganese (Mn)	0.409	mg/L	N	0.005	1	EPA 200.7	10/05/2012 14:16	DJSULL1
TOTAL RECOVERABLE METALS I	BY ICP-MS							
Arsenic (As)	< 20	ug/L	N	20	1	EPA 200.8	10/05/2012 14:24	KRICHAR
Barium (Ba)	177	ug/L	N	20	1	EPA 200.8	10/05/2012 14:24	KRICHAR
Cadmium (Cd)	< 20	ug/L	N	20	1	EPA 200.8	10/05/2012 14:24	KRICHAR
Chromium (Cr)	< 20	ug/L	N	20	1	EPA 200.8	10/05/2012 14:24	KRICHAR
Copper (Cu)	< 20	ug/L	N	20	1	EPA 200.8	10/05/2012 14:24	KRICHAR
Lead (Pb)	< 20	ug/L	N	20	1	EPA 200.8	10/05/2012 14:24	KRICHAR
Zinc (Zn)	34.8	ug/L	N	20	1	EPA 200.8	10/05/2012 14:24	KRICHAR
TOTAL DISSOLVED SOLIDS								
TDS	22000	mg/L	N	40	1	SM2540C	10/03/2012 15:30	TJA7067
TOTAL SUSPENDED SOLIDS								
TSS	< 5	mg/L	N	5	1	SM2540D	10/08/2012 10:07	SWILLI3

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM Analytical Lab **Duke Energy Analytical Laboratory Analytical Laboratory Use Only Duke** Energy... Page 5 of 5 LIMS # Sample Class NPDES 19Page __1_ of _1 Originating OHIO DISTRIBUTION Mail Code MGO3A2 (Building 7405) 13339 Hagers Ferry Rd ORIGINAL to LAB, Huntersville, N. C. 28078 COPY to CLIENT (704) 875-5245 Fax: (704) 875-4349 SAMPLE PROGRAM **NPDES MIAMI-FORT NPDES Monthly** (Week 1- October 2, 2012) Cooler Temp (C) PO# 4)Fax No: 15 Preserv.:1=HCL 2=H2SO4 3=HNO3 Miami-Fort - Tara Thomas, Matt Hoyt MR# 5)Business Unit: 7)Resp. Center To: B, Fe, Mn, As, Ba, Cd, Cr, Cu, Pb, Zn 8)Project ID: 9)Activity ID: 10)Mail Code: Customer to complete all appropriate non-shaded areas. CI, F, SO4 Alkalinity ¹⁴Collection Information LAB USE ONLY 18Grab 12Chem TDS TSS ¹³Sample Description or ID Desktop No. 11Lab ID X 2012020815 Outfall 002 1 2012020811 Outfall 608 X 1 1 Customer to sign & date below - fill out from left to right. 1) Relinquished By 2) Accepted By Date/Time ²²Requested Turnaround desired turnaround. 3) Relinquished By 10 Days X 131 Customer, IMPORTANT! 5)Relinquished By 7)Relinquished By 8)Accepted By: Date/Time Date/Time 08:22 * Add. Cost Will Apply

ICP TOT - B, Fe, Mn IMS-TRM - As , Ba, Cd, Cr, Cu, Pb, Zn

Fe HACH = O.D7mall